



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society,

FOR MDCCCXXIV.

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✍ It is particularly requested, that all Letters,
Communications, and Packages containing Specimens,
intended for the Society, may be directed to

“ *The Secretaries*

of the

Yorkshire Philosophical Society,

York.”

REPORT.

THE Council of the Yorkshire Philosophical Society beg leave to lay before the Annual Meeting, an abstract of the Society's receipts and expenditure for the year 1824, together with a detailed account of the donations which have been made, during that period, to the Library, and the various departments of the Museum.

It will be found that a considerable portion of the funds of the Society, has been employed in providing depositories for the presents made to it in the course of the last twelve-month, the number of which has been even greater than in the preceding year. In 1823, the donations to the geological and mineralogical cabinets were about TWO THOUSAND ; in 1824, the donations to the Geological collection have amounted to nearly TWO THOUSAND FIVE HUNDRED, independent of more than TWO HUNDRED specimens added to the Mineralogical cases. The Council cannot but congratulate the Meeting upon so satisfactory a proof of the great and increasing zeal with which the Institution is supported, and the spirit of

research which it has awakened ; and they find no reason to regret the rule which they have laid down to themselves, of relying, for the augmentation of the Geological part of the Museum, chiefly on the individual exertions of the Members of the Society, and the liberality of those who are willing to contribute to its objects.

To foreign Geology this principle has not been thought equally applicable ; and the Council had no hesitation in availing itself of an offer, made through the intervention of one of the honorary Members of the Society,* by his Excellency Baron Von Struve, to purchase, at Brunswick, a very instructive series of specimens from the Mountains of the Harz, and from the Volcanic and Trap districts of Germany, Iceland, and the Azores.

In addition to what has been thus acquired by donation and purchase, there has lately been placed as a deposit in the cabinets of the Society, the private collection of Comparative Anatomy, belonging to the Curator† of that department ; a collection rendered peculiarly interesting by the illustration it affords of those fossil remains of antediluvian animals, which occupy the most prominent place in the Society's Museum.

The space necessarily occupied by such an accumulation of specimens as has thus accrued from various sources, and

* Thomas Meade, esq. of Chatley, near Bath.

† James Atkinson, esq. York.

the arrangements required to bring them before the eye, to the extent desirable in an institution which cannot command the constant attendance of a Curator, will amply account to the Meeting for the principal item in the expenditure of the last year, the sum of One Hundred and Sixty-eight Pounds, employed in furnishing the Rooms. The remaining expenses may be generally stated to have consisted in Sixty-five Pounds laid out in Books and Maps, and about One Hundred Pounds in defraying charges which must be expected to be of annual recurrence. These disbursements have left, at the end of 1824, a balance on the books in favour of the Society, to the amount of Seventy Pounds, which, added to the Subscriptions due for 1825, makes an income of Two Hundred Pounds ready to meet the demands of the ensuing year: its finances, therefore, considering also the probability of increased resources from the accession of new members, must be considered as in a satisfactory state; and the Council have in consequence thought themselves justified in undertaking to advance the sum of Fifty Pounds, to meet a subscription which has been raised for the purpose of putting the Society in possession of a collection of Ancient Coins, valued at Two Hundred Guineas. The liberality thus called into action, has made a present to the Society which will at once give an interest to this department of the Museum, and which there is every reason to hope will have the effect of attracting many future contributions.

The Council have great satisfaction in calling the attention of the Meeting to a new source of income, appearing on the accounts which are now laid before them. Two courses

of Lectures on the sciences of Geology* and Chemistry† have been delivered on the Society's account, and a third on Zoology‡ under its patronage, which have been attended in a manner corresponding with the anticipations expressed in the last Report, and displaying that eagerness for scientific information which had been hoped for from the public, and which it is one of the principal objects of the Society to gratify and encourage.|| In the arrangements for these Lectures very considerable embarrassment was experienced, from the want of rooms adapted to the purpose of their delivery; but, even under this disadvantage, the profit derived from them, amounting to about Forty Pounds, has been sufficient to show that, if a proper Lecture Room should be built, the Lectures might reasonably be expected to pay the interest of the money laid out upon the building. The Council however submit to the Society, that it would be an object worthy of the county of York, to lend to an institution of this nature, a support which might render such a speculation unnecessary. They have some reason to believe, that a site for a Philosophical Establishment may be obtained on terms of the most liberal kind; a subscription of Three Thousand Pounds would be sufficient to raise a building that would comprise both an adequate Lecture Room and an extended Museum; and the Society has already proved, during the two years which it has existed, how capable it is of storing such a building

* By Mr. W. Smith. † By Messrs. West and George. ‡ By Dr. Harwood, F.L.S.

|| Gratuitous admission to the Chemical course, was given by the Council to several ingenious Artisans and Mechanics, who had expressed a wish to benefit by these Lectures.

with the materials of knowledge, and how desirous of encouraging, by all the means in its power, those honourable and useful studies, the cultivation of which, in their various branches, has raised to so high a pitch both the intellectual character and the commercial prosperity of this country.

Should the Meeting concur with the Council in the views it has now suggested, it is proposed that a Committee should be formed, of Members of the Society residing in different parts of Yorkshire, for the purpose of carrying those views into effect.

Encouraged by the success which attended the Lectures in the last spring, the Council have made proposals for two courses to be delivered in the present year, in the months of February and March: to one of these offers an answer has not yet been received;* the other has been accepted, and Mr. J. Phillips, a gentleman with whose attainments the Meeting are well acquainted, and to whose intelligence and industry the Society has been greatly indebted, has undertaken to deliver, in February, a short course of Lectures on the Primitive Rocks and Organized Fossils, supplementary to those which were delivered in 1824, by his relative, Mr. Smith.

In mentioning the name of Mr. Smith, the Council hope they may be allowed to express to the Meeting the satisfac-

* Since the Report was presented to the Annual Meeting, Mr. R. Dalton has been engaged to deliver a course of nine Lectures on Mechanics, Hydrostatics, Hydraulics, and Optics: and Mr. Murray a course of twelve Lectures on Chemistry.

tion they feel, in having been the means of inducing this able and experienced geologist, to resume his examination of the strata of Yorkshire; the result of which has been, a further developement of the intricate geological arrangement of the eastern part of the county, and the identification of several distinct beds in the Oolitic series, not before discriminated, with those which are known in the southern course of the strata. Mr. Smith is engaged in introducing these new observations and corrections into his Geological Map of Yorkshire; and he entertains also an intention of publishing the documents on which the colouring of that map is founded, the valuable fruits of many years of laborious investigation.

The Council, while they have paid especial attention to objects thus near at home, have not been inattentive to the principle of extending, where occasion has offered, the sphere of the Society's operations. They have embraced an opportunity of sending a collection of duplicate fossils to the Asiatic Society at Calcutta; and they are at present engaged in selecting specimens from the Yorkshire Oolitic coal field, at the request of Professor Buckland, for the author of the *Flora der Vorwelt*, Count Sternberg, to be placed in the Public Museum under his superintendence at Prague.

Upon the same principle of making the Society's acquisitions as subservient as possible to the general interests of science, the Council have lent to Professor Buckland some rare specimens, of which he wished to have drawings made for the use of himself and Mr. Conybeare; and they have promised to send some duplicates to the Museum at Oxford,

and are under similar engagements to several other scientific Institutions. The accurate arrangement of the geological and mineralogical collections, which has been completed in the last year,* has enabled the Officers of the Society to separate the duplicates which they contain ; whilst it has already rendered the Museum a very instructive school to the student, and, in the Fossil department, a very compendious and useful account of the local Strata to the experienced geologist.

Having thus given a faithful statement of the resources which have been placed at their disposal, of the manner in which they have hitherto transacted the business of the Society, and of their views for the future, the Council venture to come before the Annual Meeting with a call for increased exertion. They are duly sensible of the zeal which has been already shown by the members of the Society, for the promotion of its laudable objects ; and they are encouraged by their sense of that zeal, to hope that an effort will now be made, to give a higher character of utility to its exertions, to support it in the way in which such an Institution ought to be supported by this great county, and to raise it to a state of which Yorkshire may have just reason to be proud.

* The geological collection is arranged in the order of the strata, and each specimen labelled with its locality and scientific name. The minerals are arranged according to the classification of Mr. W. Phillips, in his "Introduction to Mineralogy."

THE TREASURER'S ACCOUNT.

[illegible]

JONA: GRAY, Treasurer.

York, Jan. 11th. 1825.

STATE OF THE SOCIETY'S FUNDS.

	£.	s.	d.
Admissions and Subscriptions unpaid for 1823 and 1824.....	75	0	0
Deduct balance due to the Treasurer.....	4	10	5½
Surplus at the end of the year 1824....	£70	9	6½

DONATIONS

TO THE

SOCIETY'S MUSEUM AND LIBRARY.

TO THE MUSEUM.

GEOLOGY AND MINERALOGY.

1823. §

† Rev. Mr. Affleck.....	22	Fossil Plants ; Coal-Measures, Silkstone, w.r.y.
Mr. T. Backhouse.....	16	specimens, Magnesian Limestone, Durham.
† Mr. Belcher.....	33	Fossils ; Lias, Whitby, n.r.y.
* Mr. Bird.....	{	Head of fossil Crocodile, head of Ichthyosaurus, 57 bones of Ichthyo- saurus, &c. Lias, Whitby, n.r.y.
† Mr. Bland.....		26 Minerals and Fossils.
* Rev. Prof. Buckland.....	{	100 Specimens of Fossils from the Oolitic series in Oxfordshire ; from Antigua, New Holland, &c.
Earl of Carlisle.....		Bufonites, & 29 other specimens ; Coralline Oolite, Castle Howard.
* Rev. W. D. Conybeare, &)	{	17 Fossils ; Coral Rag and Lias, Wilts and Somerset.
* Mr. J. S. Miller.....		

§ Last year's Report being out of print, an account of the donations received in 1823, has been inserted under each head in the present list.— n.r.y. e.r.y. or w.r.y. denote the locality to be in the North, East, or West Riding of Yorkshire.

* Honorary Members. † Donors not Members of the Society.

Mr. Copsie.....	79 Minerals and Fossils.
† Miss Currer.....	20 Fossils and Minerals.
Mr. Danby.....	} Series of sinkings at Brownsbeck Colliery, in Colsterdale, N.R.Y. with a Section. 51 Fossils and Minerals.
Rev. W. H. Dixon.....	
Rev. B. Eamonson.....	23 Geological specimens, Craike, N.R.Y.
	Limestone, Bramham, &c. W.R.Y.
* Rev. W. Eastmead.....	40 Fossils, Kirbymoorside, &c. N.R.Y.
* Mr. Eglin.....	Ichthyosaurus, (head, vertebræ, and paddles,) & other fossils, Lias, Whitby.
† Mr. Ellison.....	Fossils, Pembrokeshire, &c.
Mr. J. L. Eyre.....	Fossil Plants and Shells, Coal-measures, Chesterfield.
† Mr. Fawkes (<i>Farnley</i>).	Gigantic Phytolithus, in Sandstone, Coal-measures, W.R.Y.
Mr. Hawksworth Fawkes.	12 fossil Plants, Coal-measures, Durham.
Rev. J. Graham.....	57 Geological specimens and Minerals.
* Rev. Robert Halifax....	48 Fossils, Trans. Limest. Salop, &c.
† Mr. J. Hearon.....	Agate : Oberstein.
* Professor Henslow.....	33 Specimens of Trap, &c. Anglesea.
Mr. Hepworth.....	216 Minerals.
† Mr. Jackson.....	12 Minerals.
Mr. H. W. Hird.....	} 51 Fossil Plants, &c. Low Moor, W.R.Y. and scoriæ containing Metallic Titanium.
Rev. F. Kendall.....	
	Fossil Shells, Scarbro', N.R.Y.
Mr. W. Leatham.....	Fossil Plants, Coal-measures, W.R.Y.
Mr. Marshall.....	73 Alpine Rocks and foreign Minerals.
Mr. Meynell (<i>Friarage</i>).	21 Foreign Minerals.
† Dr. Murray.....	Sulphate of Strontian, Knaresbro', W.R.Y.

† Dr. Murray.....	Sulphate of Strontian, Knaresbro', W.R.Y.
† Mrs. Norcliffe.....	Fossils, Coralline Oolite, Langton, E.R.Y.
* Mr. Pickering.....	116 Fossils, Coralline Oolite, Malton.
† Dean of Ripon.....	14 Minerals, Royal Mines, Spain.
Mr. Salmond.....	Series, illustrating a Memoir on Holder- ness, & 35 other Geological specimens.
† Rev. S. Sharp.....	Polished Muscle-bed Marble, Coal- measures, Wakefield, W.R.Y.
† Mr. H. F. Smith.....	Fossils & Minerals, Mag. Limest. Durham.
Rev. Sydney Smith.....	Fossils, Inf. Oolite, Hutton Ambo, N.R.Y.
Rev. W. Smith.....	16 Foreign and British Marbles.
Lord Stourton.....	77 Alpine & Vesuvian Rocks & Minerals.
* Rev. W. Taylor.....	Fossil shells, Lias, Wilton, N.R.Y.
Mr. Thorpe.....	{ Two portions of the upper jaw, and a section of the vertebræ of Ichthyosaurus, four vertebræ with ribs of Plesiosaurus, lower jaw of Crocodile, & large diluvial mass of Madreporal Limestone; Whitby. —Many other Fossils and Minerals.
Mr. G. Todd.....	Fibrous Carb. of Lime, Collingham, W.R.Y.
Mr. D. Tuke.....	40 Fossils and Minerals.
Mr. S. Tuke.....	31 Fossils and Minerals.
Capt. F. V. Vernon, R.N.	{ 25 Minerals; mines of Copiapo, in Chili, and other parts of South America; Africa, St. Helena, and Conception.
Rev. L. V. Vernon.....	31 Geological specimens, chiefly Northumberland.
Rev. W. V. Vernon.....	{ Specimens of Ichthyosaurus and Plesio- saurus, Whitby. 450 other fossils. { 57 Swedish and Alpine Minerals.
Rev. C. Wellbeloved.....	13 Fossils.
* Archd. Wrangham.....	Fossils, Chalk, Hunmanby, E.R.Y.
* Rev. G. Young.....	Series of Rocks of Yorkshire Coast.

1824.

Mr. W. H. Alexander.....	3 Minerals, Scotland and Cumberland.
† Mr. Allis.....	{ 56 Fossils, London Clay, Green Sand, Oolites, Lias, and Transition Limestone of southern counties. 8 Minerals, Devon, Cornwall, &c.
Mr. T. Backhouse.....	Fossils, Magnesian Limestone, Durham. English and Foreign Minerals.
† Mr. Bland.....	32 Minerals.
† Mr. Brewerton.....	Phosphate of Iron, Bawtry, w.r.y.
† Mr. Briggs.....	Minerals, Dufton mines & Derbyshire.
† Mr. Camidge.....	Polished Agates.
Mr. Cholmeley.....	Fossils, Inf. Oolite, Brandsby, n.r.y.
† Mr. Clemesha.....	Fossils, Chalk Marl, Alton, Hants.
Mr. Copsie.....	22 Fossils, Coralline Oolite, Malton, n.r.y. & other Fossils and Minerals.
Rev. R. Croft.....	2 Minerals.
Rev. T. Croft.....	Quartz crystallized in a geode.
† Miss Croft.....	4 Minerals.
† Mr. Cumberland, Hon. M.G.S.....	{ 51 Fossils, Chalk, Kent and Sussex; Oolites, Lias, and Coal-measures, Somers- et and Gloucester. 11 Minerals.
Mr. Danby.....	32 English and Foreign Minerals.
Mr. Dealtry.....	Fossil Shells and Plants, Coal-measures, Wakefield, w.r.y.
Mr. R. Denison.....	Pseudomorphous Galena : Cumberland.

- Rev. B. Eamonson { Barytes, &c. in Magnesian Limestone,
Bramham, w.r.y. 15 Rock specimens,
Isle of Man.
- † Mr. Ellison Fossil Shells, Diluvium, Copgrove, w.r.y.
- Mr. Wilmer Field Pecten Papyraceus and Ammonites, in
Coal Shale, Heaton and Shipley, w.r.y.
- Dr. Goldie Siliceous casts of Shells in Mountain
Limestone, Northumberland.
- Rev. John Graham { 40 Fossils, from the beds above the
Chalk, Chalk, and beds between the
Chalk and Oolites, Isle of Wight,
Folkstone, and Dover.
- * Dr. Greville Fossil Plant, Edinburgh Coal-field.
- * Rev. R. Halifax Ammonite, inf. Oolite, Gloucestershire.
- † Mr. Hamerton, Jun. Fossils, Mountain Limestone, Craven.
- * Mr. Hinderwell Fossils, Coralline Oolite, Malton, n.r.y.
- Hon. and Rev. H. Howard. Trilobite, Transition Limestone, Llan-
deilo, S. Wales.
- † Mrs. Howard (*Corby Castle*) 2 Minerals from Italy.
- † Mrs. Jarrett Fossil Plants, and Calcareous Spar in
coal, Camerton, Somerset.
- † Mr. J. Lakeland Fossil Shells, Chalk, ———.
- Mr. Marshall { Green Carbonate of Copper in Magn.
Limestone, Newton Kyme, w.r.y.
Shells, &c. in Trans. Limestone, Dudley.
Minerals, Switzerland, Italy, & Iceland.
- * Mr. Meade { 50 Fossils, Chalk, Gr. Sand, Coral rag,
Cornbrash, & Coal-measures, Wilts &
Somerset. Rock specimens containing
fossils, North America. 28 English
and N. American Minerals.

- Mr. J. Mills Non-descript Fossil bivalve Shell :
Bridlington, E.R.Y.
- † Dr. Murray Two varieties of Carbonate of Strontian :
Merryfield Mine, Pately, W.R.Y.
- Rev. B. Newton 25 Fossils : Green Sand, Cornbrash, and
Kelloways Rock, Wilts. 5 Minerals.
- Mr. Pemberton Rocks and Minerals, Cumberland.
- * Mr. J. Phillips { 38 species of fossil Shells and
Zoophytes : Green Sand, Coralline
Oolite, and Cornbrash, Somerset.
- * Mr. Pickering { Upper jaw of Fossil Crocodile ; bones
and teeth of Saurian animals ; and 95
specimens added to his former donation
of Fossil Shells, &c : all from the
Coralline Oolite, Malton, N.R.Y.
- † Mr. Plows, York Fossil Plants : Mexbro', W.R.Y.
- † Mr. Preston { Fossil Shells and Mineral Tar, from
the "hard band" stratum of the Moun-
tain Limestone : Flasby, Craven. W.R.Y.
- † Rev. T. Rankin Phosphate of Iron, from a Tumulus.
- † Mr. L. Robinson Vertebra of Ichthyosaurus, and Belem-
nite : Lias Clay, Sanctou, E.R.Y.
- Mr. Salmond { 120 Fossils, Yorkshire. 20 Specimens of
Grauwacke, &c. Cumberland. 170 Rocks,
Scotland and Hebrides. 15 Minerals,
Cumberland and Scotland.
- † Rev. James Serjeantson. Fossil Plants : Wakefield, W.R.Y.
- * Mr. W. Smith { 158 Fossils and Rock specimens : Wilts,
Somerset, Lincolnshire, Westmoreland,
and Cumberland.
- * Mr. W. Smith and
* Mr. Phillips { 193 Fossils and Rock specimens, from
various parts of Yorkshire.

- † Mr. I. Stickney Fossil wood, Scarbro' Beach.
- † Rev. E. Stillingfleet Astræa in chert, Tisbury, Wilts.
- Mr. Strangways 17 Minerals, Devonshire, &c.
- Mr. Eust. Strickland Fossils, Oolites and Lias, Lincolnshire.
- † Miss A. Sympson Ammonite, Bridlington Beach, E.R.Y.
- † Miss E. Sympson 20 Agates, &c. Yorkshire coast.
- * Rev. W. Taylor 22 Fossils, Transition Limestone,
Herefordshire and Wales.
- † Mr. J. Thompson Fossils, Chalk, Yorkshire Wolds.
- Mr. Thorpe Selenite, Bonby, Lincolnshire.
- Mr. D. Tuke Geological specimens, Yorkshire.
- Mr. S. Tuke Fossil Shells, Dover and France.
- † Countess of Tyrconnel 22 Fossil Shells, France and Pyrenees.
3 English Minerals.
- † Rev. C. V. Vernon { Fossils from upper beds of Mountain
Limestone and Shale, hardened by
contact with Trap, Northumberland.
- Rev. W. V. Vernon { Fossils, Calcareous grit, Birdsall,
E.R.Y. and diluvial gravel, York.
Trilobite with shells, Transition Lime-
stone, Shropshire. Fossils, in Transition
Slate, N. Wales and Westmoreland.
Rock specimens and Minerals, primary
district, Cumberland.
- † Mr. S. Waring Ammonites Banksii, Sherborne, Dorset.
- * Mr. West Carbonate of Strontian, Pately, W.R.Y.
- † Miss Wheeler Fossil Palates, Chalk, Hitchin, Herts.
- † Mr. Witham, M.W.S. 262 Rocks of various districts of Scotland.

MINERALS, &c. PURCHASED BY THE SOCIETY.

1823.

- 140 Fossil specimens, including numerous remains of Ichthyosaurus and Plesiosaurus ; Lias, Whitby.
 160 Foreign and British Minerals.
 16 Rocks and Minerals, Zetland.

1824.

A Collection purchased in Germany, consisting of—

- 209 specimens of the Primitive, Transition, and Secondary Rocks, of the district of the Harz Mountains.
 60 specimens of Basaltic and Amygdaloidal Rocks, and Minerals, of the district of the Rhine and other parts of Germany.
 21 specimens of the Volcanic Rocks and Minerals of Rieden and Niedermennich, near Laach, on the Rhine.
 40 specimens of the Volcanic Rocks of Iceland, and products of the hot springs of the Geyser.
 20 specimens of the Volcanic Rocks, and products of the hot springs, of St. Michael's, Azore Islands.

Fossil Crocodile, head, vertebral column, &c. Lias, Whitby.

DONATIONS OF FOSSIL BONES, FROM CAVES, &c.

1823.

Mr. Jas. Atkinson.. 144	}	{	250 Fossil Bones, Teeth, &c. of Elephant, Hippopotamus, Rhinoceros, Ox, Stag, Hyæna, Fox, Water-rat, & Widgeon, (the bones and teeth of the Hyæna amounting to 122,) with specimens of diluvian mud and stalagnite ; Kirkdale Cave, N. R. Y.
Mr. Salmond..... 43			
Mr. Thorpe..... 36			
H. Atcheson, M. B.. 13			
* Rev. W. Eastmead.. 8			
Rev. W V. Vernon.. 6			

* Dr. Alderson,.....	Portion of Elephant's tusk, Cliff, Atwick, E.R.Y.
† Rev. S. Creyke	21 Bones of Hyæna, Horse, and Ox : Oreston caves, Plymouth.
Mr. Salmond.....	Portion of Elephant's tusk, Rugby.
† Mr. Shepherd.....	Portion of Elephant's tusk, gravel, Brandsburton, E.R.Y.
Mr. Alderman Smith.....	Horns of Stag, Pocklington, E.R.Y.
Mr. Thompson (<i>Kirby- Hall</i>).....	} Portion of Elephant's tusk, gravel, Overton, near York.
Mr. Thorpe	
Rev. W. V. Vernon.....	Teeth of Elephant and Rhinoceros, clay, Bridlington, E.R.Y.

1824.

Mr. Rookes Crompton....	Bones from chalk gravel, France.
† Mrs. Jarrett.....	Bones & teeth, Banwell cave, Mendip.
† Mr. Lakeland.....	Bones and teeth, Kirkdale cave.
Mr. Salmond	Bones and teeth of Horse ; chalk gravel, Hessle, E.R.Y.
Rev. C. Sykes	Horn of Stag, Scampston, and Ele- phant's tooth, Holderness, E.R.Y.
Rev. W. V. Vernon.....	Bones and teeth of Horse ; Hessle.
Mr. Danby.....	Occiput and teeth of gigantic Bos, peat bog, Swinton, N.R.Y.
Mr. Strangways.....	Horn of gigantic Bos, peat bog, Alne, N.R.Y.

RECENT ZOOLOGY AND BOTANY.

1823.

Mr. Allen	Skull of Polar Bear.
† Miss Atkinson.....	300 Insects, East Indies. Collection of dried Plants, Scarborough.
† Mr. Jas. Backhouse	Collection of dried Plants.
Mr. T. Backhouse.....	200 British Insects.
* Mr. Bean.....	51 species of Shells, Scarborough.
Dr. Beckwith.....	Tooth of the Narwhal.
Mr. Danby.....	Skull of Asiatic Elephant of large size.
† Mr. Alderman Hearon..	Chinese Pheasant, male and female.
Mr. Henwood.....	Skull of Bear. Wings of Flying Fish.
Mr. Hornor.....	Skull of Walrus.
Mr. G. Strickland.....	9 Birds, and 50 Insects, Canada.
Capt. F. V. Vernon, R.N.	Collection of woods, Mauritius.
Rev. W. V. Vernon.....	Collection of tropical Shells. 4 tropical Fishes.

1824.

Mr. Jas. Atkinson.....	{ Female Pheasant, the plumage changing to that of the male.—Egg of the Ostrich.—Collection of articles of the Vegetable Materia Medica.
† Miss Atkinson.....	
Mr. T. Backhouse	
Mr. T. Backhouse	Many additions to his collection of British Insects.
Rev. R. Croft.....	{ Tooth of the Narwhal.—Plate from the palate of the Whale.—Head of Dog-fish.—Seeds & seed-vessels of various plants.

Rev. B. Eamonson	Concretion from a horse.
Rev. J. B. Graham	68 Chinese and other Insects.
† Mr. J. E. Gray, F.L.S.	28 Species of British and E. I. Shells.
Hull Philosophical Society.	Asteria caput-medusæ. 27 Insects.
† Mr. R. Markham	Skeleton of Animal of the class Rodentia : Cape of Good Hope.
Mr. Salmond	Skull of the Dolphin.
Mr. Ald. Smith	Cancer horridus : Whitby coast.
* Rev. J. Smyth	26 Australasian Birds.
Mr. G. Strickland	Pelicanus Bassanus, Frith of Forth,
† Miss. E. Sympton	55 Species of tropical Shells.

COLLECTION OF
ZOOLOGY AND COMPARATIVE ANATOMY,
DEPOSITED IN THE SOCIETY'S MUSEUM,
BY MR. ATKINSON. *

MAMMALIA.

Complete Skeletons of Monkey, Coatimundi, Weasel, Ichneumon, Dog, Lion and Lioness, Leopard, Cat, Mole, Opossum, Badger, Rat, Mouse, Rabbit, Deer.—~~Dried~~ *Specimens* of the common and long-eared Bat.—*Crania* of Monkeys, Bat, Hedgehog, Black and Polar Bears, Racoon, Otter, various Dogs, Hyæna, Bengal and Hunting Tigers, Seal, Morse, Hare, Rabbit, Pig, Babiroussa, Horse, Cervus Axis, Fallow Deer, four-horned Ram, common Sheep, Ox. Cranium of Wolf, dug up at York. Cranium of Heifer, dug up at Pocklington.

* It is the intention of the proprietor of this Collection to enlarge it as opportunities occur; and to render it as complete as possible, as an illustration of Physiology and Zoology, and a standard of comparison for Fossil Osteology.

Incisor Teeth and tusks of Hippopotamus and *Tusks of* Wild Boar.—Teeth of Deer, Horse, and other herbivorous animals. Sections, transverse and longitudinal, of the teeth of the Horse, shewing the plates of enamel, at different ages.—Horns of Buffalo, Deer, Chamois, &c. Horn of Goat, dug up at York.—Vertebral column of Horse, Deer, &c. Ankylosed vertebral column of a horse. Pelvis of Deer, Ox, &c. Detached bones of various Animals.—Iris and Cornea of Horse. Stomachs of carnivorous and ruminant Animals. Stomachs and viscera of Monkeys. Vesica of Opossum. Fin of Seal.—Preparations illustrating the structure of the Eye and Ear, the growth of the bony fabric, and the Vascular System.

Complete sets of the bones
BIRDS.

~~Skeletons~~ of Swan and Owl; Skeletons of Hawks, connected by their ligaments.—Crania of Duck, Heron, different species of Gulls, Magpie, Hawks, Buzzard, Royston and Carrion Crows, &c.—Bony Iris of a Bird of Prey.—Preparations of the Cerebrum, Cerebellum, &c. of small birds.

REPTILES.

A young Crocodile. Whip-snake.—Upper and lower jaw of Alligator. Upper jaw of Crocodile. *Skinner* ~~Skeleton~~ of Turtle. Cranium of Turtle. Skeleton of Frog. Heart of Turtle injected, shewing the double aorta. Lacteal vessels in the mesentery of the Turtle. Part of the jaw and teeth of a Snake.

FISHES.

Skull of the Cod-fish. Galeated Skull of the "Light-horseman," a fish of Botany Bay. Jaws of Wolf-fish, of several Sharks, and other Fishes. Beak of the Sword-fish. Vertebral column of the Shark.

ANTIQUITIES, COINS, &c.

1823.

H. A. Atcheson, M.B..	Mummy of the Ibis.
Mr. Jas. Atkinson	Roman, British, & Monastic Antiquities.
Mr. P. Atkinson.....	A Roman Meta, (camp at Adel.)
† Mr. Bland.....	Silver and copper gilt Bowl, probably of the xivth century, &c.
Rev. J. Graham.....	Celt. Sacrificial Sculpture, from the Roman wall. British Stone Axe.
† Mr. Jackson.....	Roman Bracelet & Ear-rings,(near York.)
† Mr. Knowlson.....	Urns, Amphoræ, &c, (York.)
Mr. Pemberton.....	Fragments of Tessellated Pavement, &c.
† Mr. Robinson.....	Monastic Seal.
Rev. C. Sykes.....	Roman Cinerary Urns, (Malton.)
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† Mr. G. Thorpe.....	Roman figure, in brass, (York.)
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Mr. D. Tuke.....	Figure in wood, (Cleveland.)
† Mr. R. Tuke.....	Celt, (Stittenham.)
Rev. W. V. Vernon	Moulds of Roman Coins,(Wakefield,) &c.

H. A. Atcheson, M.B..	Chinese Compass.
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 Capt. F. V. Vernon, R.N. Idol, and other articles from the South
 Sea Islands.

1824.

- † Miss Atkinson..... Jet beads, (Mount, York.)
 Dr. Beckwith..... Indian Sandals.
 Mr. Bell..... Malabar MS. on Palm leaves, in the
 Tamul language.
 † Mr. Blanchard..... Small Hindoo Idol in copper.
 † Mr. Brewerton..... Flint Adze, (Bawtry.)
 Rev. R. Croft..... { Roman Figure in brass, of Bellona (York.)
 — Another, (Pompeii.)—Another, and
 a bust, (place unknown.)—Silver Fibula.
 — Two lamps.—Tablet in bronze.—
 Ancient British horse-shoe, (York.)—An-
 cient British silver pendant.—5 ancient
 rings.—Small Equestrian figure in mail
 armour : (15th century.)—Monastic seal.
 War club, from Sandwich Isles, &c. &c.
 * Mr. R. Dalton..... Seal of St. Mary's Abbey, York.
 † Mr. J. Facey..... Chinese Dagger.
 Mr. Henwood..... 2 Indian Armlets in Ivory.
 † Mr. Knowlson..... Chinese Fan.
 † Mrs. Pemberton..... Chinese Umbrella.
 † Dean of Ripon..... Tile from the Alhambra, with an Arabic
 inscription. Chinese Padlock.
 Rev. C. Sykes..... Ancient Spur, (Eddlethorpe, E.R.Y.)
 † Mr. J. Settle..... War club from Berbice.

COINS AND MEDALS.

1823.

Mr. P. Atkinson.....	4 Roman silver coins, (York.)
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Dr. Beckwith.....	3 Roman and 2 English coins.
† Mr. J. Browne.....	Valens, æ. (York.)
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† Messrs. Hardman.....	2 Roman and 9 modern coins.
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† Mr. C. Watson.....	6 Roman coins, (York.)

1824.

Rev. Archdeacon Eyre....	7 Saxon and early English Silver Coins, (Conisborough.)
† Mr. J. Thompson	3 Roman Coins.
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| Mr. Jas. Atkinson..... | Renerii Tabulæ Mediceæ. |
| * Rev. Prof. Buckland... | Reliquiæ Diluvianæ. |
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| * Mr. De la Beche..... | Papers from Geological Transactions. |
| Dr. Goldie..... | { Edinburgh Philosophical Journal, vols. 1 to 8.—Kirby and Spence's Entomology, 2 vols.—Burrow's Conchology.—Jameson's Mineralogy, 3 vols.—Jameson's Characters of Minerals.—Lamarck, Philosophie Zoölogique, 2 vols.—Kendall's Scarborough Fossils.—Blumenbach's Comparative Anatomy, by Lawrence. |
| * Professor Henslow..... | Syllabus of Lectures on Mineralogy. |
| * Dr. Hooker..... | Flora Scotica, Edin. 1823. |
| Mr. Meynell (<i>Friarage</i>). | Wernerian Society's Memoirs, v. 1,2,3. |
| Mr. G. Meynell..... | Haüy's Natural Philosophy, 2 vols. |
| * Mr. J. S. Miller..... | Natural History of the Crinoidea. |
| * Mr. W. Phillips..... | Introduction to Mineralogy.—Lectures on Astronomy. |

Mr. Ryland	Newton's Opticks, and Principia, by Motte.
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Mr. G. Todd.....	Evelyn's Terra.
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Rev. C. Wellbeloved.....	Kirwan's Mineralogy, 2 vols. and Geological Essays.
Mr. Wemyss.....	Lewin's British Birds, 8 vols.
York Subscription Library.	Catalogue of the Y. S. Library.
* Rev. G. Young, and * Mr. Bird.....	} Geological Survey of the Yorkshire Coast.

1824.

Society of Antiquaries, Newcastle-upon-Tyne....	} Archæologia Æliana, 4to. Newc. 1822.
† Mr. Atkinson (<i>Leeds</i>)..	
* Mr. Clift.....	Compendium of British Ornithology.
* Mr. Clift.....	Account of a singular case of recovery, &c.
† Mr. Fawkes	Sowerby's Mineral Conchology, 70 nos.
Dr. Goldie.....	{ Davy's Chemical Philosophy.—Davy's Agricultural Chemistry.—Murray's Chemistry, 3rd Edit. 4 vols.— Wells's Essays on Dew, &c.—Kelly on Weights and Measures.—Smith's Intro- duction to Botany.—Smith's Flora Bri- tannica, 3 vols.—Smith's Compendium Floræ Britannicæ.—Young's History of Whitby, 2 vols.—Hinderwell's Scarbro'. —Hargrove's Knaresbro'.—Le Noir, Monumens Français.

- Dr. Greville..... Flora Edinensis. Edin. 1824.
- Mr. Henwood..... { Mionnet de la rareté et du prix des
médaillles Romaines.—Dynasties des
Souverains.—Addison on Medals.
- Mr. Marshall..... Pujoulx, Minéralogie des gens du monde.
- † Mr. Murray, F.S.A. &c. On the corolla of flowers.—On the
ascent of spiders.
- Mr. Pritchett..... Plans, &c. of Wakefield Lunatic Asylum.
- * Mr. Scoresby..... Voyage to the Northern Whale-fishery.
- Mr. Sharp..... Inigo Jones on Stonehenge. Lond. 1655.
- Mr. E. Strickland..... { Bewick's British Birds.—Montagu's
Ornithological Dictionary.—Cuvier's
Animal Kingdom, by Griffith, Parts 1,
2, 3, 4.
- † Mr. Thackrah..... Lectures on Digestion and Diet. Leeds,
1824.
- Mr. Thorpe..... Agricola de re metallicâ, fol. Basil. 1561.
- Rev. W. V. Vernon..... { Neri de arte vitrariâ, Amstel. 1686.—
Park's History of Hampstead.—Lettsom
on the Tea-tree.
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BOOKS PURCHASED.

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- Allan's Mineralogical Synonymes, 8vo.
- Beudant, Voyage Géologique en Hongrie, 3 tomes, 4to. et Atlas.
- Boué, Essai Géologique sur l'Ecosse, 8vo.
- Brande's Manual of Chemistry, 3 vols. 8vo.
- Brookes's Elements of Crystallography, 8vo. (two copies.)
- Cleaveland's Mineralogy and Geology, 2 vols. 8vo.
- Cuvier's Theory of the Earth, with illustrations by Jameson, 8vo.
- Cuvier et Brongniart, Description Géologique des environs de Paris, 4to.
- Conybeare & Phillips's Geology of England, Part 1. (duplicate copy.)
- Farey's Mineral Survey of Derbyshire, 8vo.
- Foster on the Section of the Strata from Newcastle to Cross Fell, 8vo.
- Greenough's Memoir of a Geological Map of England, 4to.
- Greenough on the principles of Geology, 8vo.
- Macculloch's Geological Classification of Rocks, 8vo.
- Millington's Epitome of Natural Philosophy, Part 1. 8vo.
- Miller, Illustratio Systematis Sexualis Linnæani, 3 vols. folio.
- Parkinson's Organic Remains, 3 vols. 4to.
- Parkinson's Introduction to Organic Remains, 8vo. (two copies.)
- Pallas, Voyages en Russie et dans le nord de l'Asie, 5 tomes, 4to. et Atlas.
- dans le midi de l'Empire de Russie, 2 t. 4to. et Atlas.
- Peck's History of the Isle of Axholme, 4to.
- Peck's Topography of Thorne, &c. 4to.
- Samouelle's Entomologist's Compendium, 8vo.
- Thomas on the Mining Districts of Cornwall, 4to.
- Thompson's Ocellum Promontorium, and Ravenspurne, 8vo.

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Brongniart et Desmarest, Crustacés fossiles, 4to.

Cuvier, Règne Animal, 4 vols. 8vo.

De la Beche's Geological Memoirs from the Annales des Mines, 8vo.

Evelyn's Sylva, by Hunter, 4to.

Humboldt on the Superposition of Rocks in both Hemispheres, 8vo.

Lamarck, Planches des Coquilles fossiles de Paris, 4to.

Pander und Dalton, Skelete der Pachydermata, folio.

Smith's Strata Identified, 4to. (two copies.)

Smith's Stratigraphical System of Fossils, 4to.

TRANSACTIONS OF SOCIETIES, & PHILOSOPHICAL JOURNALS.

Philosophical Transactions, to 1750, abridged by Lowthorp, &c. 11 v. 4to.

Philosophical Transactions, 1751 to 1800. 50 vols. 4to.

Transactions of the Geological Society, First Series, 5 vols. 4to.

Philosophical Transactions, from 1823.

Transactions of the Geological Society, Second Series.

Transactions of the Cambridge Philosophical Society.

Memoirs of the Wernerian Society.

Transactions of the Royal Geological Society of Cornwall.

Transactions of the Academy of Philadelphia.

} *In continuation.*

Edinburgh Philosophical Journal, (by Jameson,) *quarterly*.

Quarterly Journal of Science and the Arts, published at the Royal Institution, (by Brande.)

Annals of Philosophy, (by Phillips,) from January 1823, *monthly*.

Edinburgh Journal of Science, (by Brewster,) *quarterly*.

Zoological Journal, *quarterly*.

Silliman's American Journal.

WORKS PUBLISHING IN PARTS OR NUMBERS.

Cuvier (F.) et Geoffroy St. Hilaire, *Histoire Naturelle des Mammifères*, folio.

Cuvier (F.) *des Dents des Mammifères, considérées comme caractères Zoologiques*, 12mo.

Cuvier (G.) *Recherches sur les Ossemens Fossiles*, 4to.

Cuvier's *Animal Kingdom*, enlarged, by Griffith and others, 8vo.

Férussac, *Histoire Naturelle des Mollusques Terrestres et Fluviales*, folio.

Reliquiæ Antiquæ, (Etchings of Antiquities in Yorkshire,) by J. Browne, 4to.

Rhode, *Pflankenkunde der Vorwelt*, folio.

Schlotheim, *Flora der Vorwelt*, 4to.

Sowerby's *Mineral Conchology*, 8vo. (two copies.)

Sternberg, *Flora der Vorwelt*, folio.

MAPS AND SECTIONS PURCHASED.

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Greenough's *Geological Map of England and Wales*,
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Jeffery's twenty-sheet *Map of Yorkshire*.

Knox's *Map of the Vicinity of Scarborough*.

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— *Geological Sections of England*.

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- * Rev. Prof. Buckland.... Print of fossil skeleton of Megatherium,
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Marshall, William, M.G.S. M.W.S. *Newton-Kyme*.

Mason, Thomas, *Copt-Hewick*.

- *Meade, Thomas, *Chatley, Somerset.*
Meynell, George, *York.*
Meynell, Thomas, *Friarage, Yarm.*
*Miller, J. S. A.L.S. *Bristol.*
*Miller, Patrick, M.D. F.R.S.E. *Exeter.*
Mills, John R. *York.*
Mills, Joshua, *York.*
*Montgomery, James, *President of the Literary and
Philosophical Society of Sheffield.*
*Moorsom, Richard, Jun. *President of the Literary and
Philosophical Society of Whitby.*
- *Necker, Louis Albert, *Geneva.*
Newsham, Rev. James, *York.*
Newton, Rev. Benjamin, *Wath.*
*Noehden, G.W. LL.D. F.L.S. *British Museum.*
- Petre, Hon. Edward, *Stapleton Park.*
*Parry, Charles Henry, M.D. *Bath.*
*Parry, Capt. W. E. R.N. F.R.S.
Pemberton, John, *York.*
*Phillips, John.
*Phillips, William, F.L.S. M.G.S. *London.*
Pickard, Rev. W.L. *York.*
*Pickering, Robert, *Malton.*
Prest, Edward, *York.*
Pritchett, J. P. *York.*
- Read, Rev. T. C. R. *Sand-Hutton.*
*Richardson, Rev. —, *Farley, Somerset.*
Ryland, William, *York.*

- Stourton, Lord.
Stourton, Hon: Philip, *Middlethorpe*.
Salmond, William, M.G.S.
Sanderson, Thomas, *York*.
Sandwith, Thomas, *Beverley*.
*Scoresby, William, Jun. F.R.S.
*Sedgwick, Rev. A. F.R.S. M.G.S. F.C.P.S. *Woodwardian Professor, Cambridge*.
*Selby, P. J. *Twizel House, Northumberland*.
Sharp, Richard Hey, *York*.
Smith, Rev. Sydney, *Foston*.
*Smith, William.
Smith, Thomas, *Huntington*.
*Smyth, Rev. J. *Kirbymoorside*.
*Soret, M. *Geneva*.
Spencer, Isaac, Jun. *Poppleton*.
Strangways, Edward Swainston, *Alne*.
Strickland, George, M.W.S. *Newton, Malton*.
Strickland, Eustachius, *York*.
Sykes, Rev. Christopher, *Rooss*.
Simpson, Robert, *York*.

Tyrconnel, Earl of.
Taylor, Edward, *Easthorpe*.
Taylor, Michael, *York*.
*Taylor, Rev. William.
Thompson, Paul Beilby, *Escrick*.
Thompson, George Lowther, M.P. *Sheriff-Hutton*.
Thompson, Richard J. *Kirby Hall*.
Thompson, Rev. Robert S. *Bilbrough*.
Thorpe, Anthony, *York*.

Todd, George, *York*.

*Traill, T. S. M.D. F.R.S.E. *Liverpool*.

Tuite, J. T. *Deighton Cottage, near York*.

Tuke, Daniel, *York*.

Tuke, Samuel, *York*.

Turner, Rev. William, *York*.

Tweedy, John, *York*.

Tweedy, John Drumelzier, *York*.

Vansittart, Henry, *Kirkleatham*.

Vernon, Captain Frederick V. R.N.

Vernon, Granville V. *London*.

Vernon, Rev. Leveson V. *Stokesley*.

Vernon, Rev. William V. F.R.S. M.G.S. *Bishopthorpe*.

Wood, Sir Francis Lindley, Bart. *Hemsworth*.

*Wrangham, Rev. Archdeacon, F.R.S. F.C.P.S. &c. &c.
Hunmanby.

Wake, Baldwin, M.D. *York*.

*Warburton, Henry, F.R.S. V.P.G.S. *London*.

Wasse, Jonah, M.D. *Moat Hall, Little Ouseburn*.

*Waterton, Charles, *Walton Hall*.

Wellbeloved, Rev. Charles, *York*.

Wemyss, Thomas, *York*.

*West, William, *Leeds*.

Wharton, John, *Aberford*.

Wilson, Richard Fountayne, *Melton, Doncaster*.

*Worsley, Rev. Thomas, F.C.P.S. *Downing College, Cambridge*.

Worsley, William, *Hovingham*.

Wortley, James Archibald Stuart, M.P. *Wortley*.

York, Archbishop of.

York, Dean of.

Yarburgh, Henry, *Heslington*.

*Young, Rev. George, *Whitby*.

Briggs, William, *Clifton*.

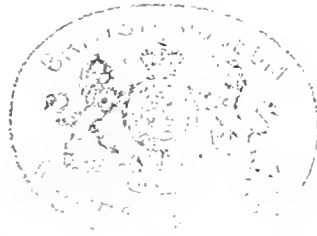
Bulmer, Rev. William, *York*.

Donkin, Thomas, *Elvington*.

Gooch, Rev. William, *Sutton*.

Lund, Rev. William, *York*.

Vernon, Egerton V. *Bishopthorpe*.



OBJECTS AND LAWS

OF THE

Dorkshire Philosophical Society,

INSTITUTED DECEMBER, MDCCCXXII.

1825.

W. ALEXANDER AND SON,
PRINTERS, YORK.

OBJECTS

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY.

The general object of the Yorkshire Philosophical Society, is the promotion of Science in the district for which it has been instituted. To this end, it would enroll among its members, not only those who are themselves engaged in philosophical studies, but all by whom the value of such studies is duly appreciated; not those alone who hope to extend the boundaries of knowledge by their own researches, but all who are willing to encourage the prosecution of such researches by others, and to concur in furnishing those facilities to scientific enquirers, which a Philosophical Association is capable of affording.

In the confidence of meeting with general support, and of being enriched with gratuitous contributions, the Society originally fixed its terms of Subscription very low, in order that, if possible, no cultivator of science might be excluded by pecuniary considerations. The extensive and opulent County of York possesses the power of patronage to an ample degree; and the public spirit and liberality which the Society has already experienced, give it every reason to expect, that the

same honourable feelings will crown its undertaking with entire success.

Among the methods by which the Society proposes to accomplish its general design,—It hopes to contribute to the diffusion of knowledge, by giving encouragement to **PUBLIC LECTURES** ; to forward the progress of investigation, by providing **APPARATUS** for the use of the experimentalist and observer ; and to facilitate the mutual communication of philosophical ideas, by holding **MEETINGS**, at which papers may be read, and oral information interchanged.

Another of the Society's objects has been the establishment of a **LIBRARY**, by means of which, persons of *scientific* pursuits, in different parts of the County, may be enabled to consult **Books** on the subjects of their respective studies, which it might not be convenient for them individually to purchase ; and, for that purpose, a Collection is making by degrees, of the **Transactions of Philosophical Societies**, and other works on **Arts, Antiquities, Natural History**, and the various branches of **Science** ; a collection which, being necessarily of an expensive kind, cannot be expected to be of rapid growth, unless it should receive, from the liberality of individual members, an augmentation beyond what the Society's limited revenue can afford.

To supply a kind of information which books cannot adequately convey, the Society has also founded a **MUSEUM**, where collections are accumulating of those objects of philosophical enquiry, which, to be understood, require to be

seen. Such collections, when they are properly arranged, become schools of science, where the student may find means of instruction to which he could no otherwise have had access. The Society, when it regards the progress which its cabinets have already made, cannot but indulge the anticipation, that ere long the elements of many branches of knowledge may be learned within the walls of its Museum; that in this repository the Naturalist may form his first acquaintance with the works of creation, the Geologist trace his science to its Fossils, and the Antiquary his erudition to its Coins.

But, whilst it embraces these general views, the Society feels that the service particularly demanded at its hands, is of a more limited and local description. A full and exact account of the Natural History of the Earth, can only be obtained by a division of scientific labour. The County of York is the partition of that labour which falls within the Society's province, and to THIS field of research it especially directs the attention of its members; a field of sufficient extent and variety to excite interest, and at the same time sufficiently bounded to admit of being accurately explored. The materials will thus, it is hoped, be gradually collected, for a complete philosophical history of Yorkshire; specimens of all the natural productions of the County, its native quadrupeds, birds, and reptiles, its fishes,* insects, shells, plants, and minerals, will

* The natural history of Fishes admits of much new illustration. Their Osteology might be exhibited with least trouble by boiling the specimens, and either reuniting the bones, where loosened, by glue, or arranging them separately according to their order. The best method of preserving the natural appearance of Fishes, is, to take a plaster cast of half the fish, and then removing the skin, to fasten it upon the cast, and varnish it.

be assembled into one view ; and the questions respecting the district, which may suggest themselves to the scientific enquirer, will be answered by a glance of the eye.

At different periods, different studies rise into notice, attract the greatest number of investigators, and make the most rapid advances. The favourite study of the present age, seems to be GEOLOGY : to this new and comprehensive subject, the Society peculiarly devotes its attention ; because on this subject there is much to be done, which it is practicable to do. One of the Society's principal objects, therefore, is to elucidate the GEOLOGY of YORKSHIRE. There are few counties in England which are traversed by so great a variety of Strata ; few of which the Strata contain so many Fossils interesting to the Geologist, or so many Minerals important to the Arts ; and few of which the geological relations are so imperfectly and doubtfully determined. Towards the illustration of this subject, the Society trusts that much may be effected, by the combined observations of many individuals in their respective neighbourhoods, and by a contribution of Specimens from every part of Yorkshire to a Central Museum.

In this statement of its designs, the Society not only has it in view to increase its efficiency, by adding to the number of its members, but hopes also to induce many persons not belonging to it, to promote what must be acknowledged to be a project of public utility, by contributing to its Museum. If the scattered Coins, the Minerals, the stuffed Animals, and other objects of curiosity, which are in private hands, and

in an insulated state possess comparatively little value, were placed in such a repository as this, they would then be connected in a series from which something might be learned, they would be preserved with much greater security, and rendered of easier access, and more general advantage.

In considerable private collections, and in every public Museum, many *duplicate* specimens * occur, which, it may be not unreasonably hoped, will be spared to the Society's cabinets. Of solitary specimens, or such as are uncommon, especially Fossils, *Casts or Drawings* will be very acceptable; care being taken in the drawing to give both the *full* front and the profile, by which the true outline will be assigned.†

Persons not pretending to any proficiency in matters of Science, have it often in their power to render essential service to Scientific Institutions, with very little trouble to themselves. In Geology especially, a common observer will detect, without difficulty, animal or vegetable remains important to the Science, in almost every gravel pit or quarry in his neighbourhood. If he will only instruct the workmen employed in them, to preserve whatever they meet with of this kind; and further take the pains to have the *localities* of the specimens thus collected, and a *description of the bed*, whether limestone or gritstone,

* If collectors sending specimens will accompany them with a list of their principal *desiderata*, connected with Yorkshire Geology and Natural History, it will serve to inform the Society what duplicates will be acceptable in return.

† See Cuvier's *Ossemens Fossiles*, tom. 11. 2de. partie, pl. 3. fig 6. A. B. or pl. 5. fig. 9. a. b. c.

clay, gravel, or sand, in which they were found, distinctly noted—a precaution upon which their value almost entirely depends—and will send them to the Society, accompanied by any remarks which may occur, on the position of the bed, and the character of other beds lying above or below it, he will confer a favour on the Institution, and contribute materially to the advancement of knowledge.

Proprietors of land, whose enlightened views have led them to procure geological surveys of their estates, may greatly benefit the cause of Science, by communicating documents relative to the portions of the Strata thus examined; and the Society is anxious to invite the correspondence both of Surveyors and of Miners, and to obtain the assistance which they are so capable of lending to its objects; particularly by noticing those points of JUNCTION, where different kinds of rock or other beds come in contact with each other, and by furnishing SECTIONS OF THE STRATA, as they are laid open, in some parts, naturally by rivers or the sea, and, in others, presented artificially by quarries, wells, or mines.

These indeed are minute details; but with such minutiae great practical utility is both immediately and remotely connected: from such minutiae the knowledge of the Earth's structure is to be deduced, and a Science hereafter to be raised, which may lead to conclusions as important, perhaps, as any of those which have been so happily derived from the other parts of Natural Philosophy.

A desire of mutually communicating information, and interchanging specimens with this Institution, has been expressed by similar Establishments in different parts of the Country. Such a co-operation will greatly advance the general views of the Yorkshire Philosophical Society, and in particular contribute much to accomplish an accurate identification of the Strata, and the construction of a perfect map of the Geology of England.

**** The Treasurer (JONA. GRAY, Esq. York) is authorized to receive Pecuniary Donations, towards the general purposes, or particular objects, of the Society.*

Donations of Books, Maps, Prints, Casts, Drawings, Specimens, and Philosophical Apparatus, will be received by the Secretaries: and it is particularly requested that all packages, as well as letters and other communications, may be directed to

“ The Secretaries of

The Yorkshire Philosophical Society,
YORK.”

In London, Donations and Communications may be addressed to the care of the Corresponding Secretary, DR. ATCHESON, 16, Upper Seymour Street, Portman Square.

LAWS OF THE SOCIETY,

AS AMENDED AT THE ANNUAL MEETING,

JANUARY, MDCCCXXV.

SECTION I.

MEETINGS.

I. An Annual Meeting of the Society shall be held on the first Tuesday of February, which shall have power to elect Officers and Members of the Council, to enact new Laws for the Society, and to alter and repeal existing Laws ; but no enactment, alteration, or repeal of a Law shall take place, unless a specific notice thereof in writing, signed by five subscribing Members, shall have been put up in the Library for one month previous to the Meeting.

Annual
Meeting.

II. General Meetings shall be held on the second Tuesday of January, March, April, July, October, November, and December. At these meetings, scientific Communications shall be received, subjects of Science discussed, Donations presented, and new Members elected.

General
Meetings.

III. Special Meetings summoned by the Council, shall have the same powers as the Annual Meeting ; provided that a notice have been issued a week before, to every subscribing Member residing within the County, specifying the object of the Meeting ; to which object its proceedings shall be confined.

Special
Meetings.

- Adjourned Meetings.** IV. Adjourned Meetings shall have the same powers as the Meetings from which they were adjourned.
- Right of Voting.** V. Subscribing Members alone, shall have the right of voting at a Meeting.
- Chairman in President's absence.** VI. If the President shall not attend any General Meeting, he shall appoint a Vice-President or Member of the Council to take the Chair, and shall communicate the appointment to the Secretaries. In failure of such communication, the Council shall elect a Chairman for the Meeting.
- Hours of Meeting.** VII. The Chair shall be taken at the Annual Meeting at Twelve o'Clock at noon ; at the General Meetings, at One o'Clock P. M. or as soon afterwards as Five Members shall have assembled.
- Decision of Questions.** VIII. Questions proposed at a Meeting shall be determined by a majority of votes ; and if the votes be equal, the Chairman shall have a second, or casting vote.

SECTION II.

OFFICERS AND COUNCIL.

- Officers.** I. A President and Vice-Presidents, a Treasurer, and Secretaries, shall be chosen out of the Subscribing Members, every year, at the Annual Meeting, and shall be re-eligible from year to year.
- Council.** II. The Affairs of the Society shall be conducted, in conformity with the Laws, by these Officers, and a Council consisting of twelve subscribing Members.

III. Four new Members of the Council shall be chosen yearly, out of the Subscribing Members of the Society, at the Annual Meeting ; the supernumerary Members of the former Council retiring in the order of seniority, (or, where the seniority is undetermined, by lot,) and not being re-eligible for the current year.

Election
of Council.

IV. There shall be laid before each Subscribing Member present at the Annual Meeting, a List of all the Subscribing Members of the Society, and also a Balloting Paper. On the latter, each Member shall write the names of those whom he desires to fill the several Offices, and shall deliver it, folded up, to the Chairman. The Chairman shall appoint two Scrutineers to examine the balloting papers ; and those Members who have the greatest number of votes for the respective Offices, shall be thereby elected to fill them. The Chairman shall announce the result of the election to the Meeting, which shall then proceed in like manner to the election of the new Members of the Council.

Mode of
Election of
Officers &
Council.

V. The President, Vice-Presidents, Treasurer, and Secretaries, shall be ex-officio Members of the Council.

Ex-officio
Members of
the Council.

VI. The Council shall meet at One o'clock on the Monday preceding each general Meeting ; and at other times, if occasion shall require, on a summons issued not later than two days before, to every Member of the Council within twenty miles. The presence of Five Members shall constitute a meeting of the Council.

Meetings
of the
Council.

VII. The Chair shall be taken in the Council, in the same manner as at the General Meetings.

Chair.

VIII. Questions proposed in the Council, shall be decided by the majority of votes ; and if the votes are equal, the Chairman shall have a second, or casting vote.

Decision of
Questions.

Curators.

IX. The Council shall appoint Curators, who, with the President and Secretaries, shall have the superintendence of the several departments of the Museum, and of the Library, and shall prepare Catalogues of the same.

Curators' Report.

X. Previous to the Annual Meeting, the Curators shall make a Report to the Council, of the additions made in the course of the year to their respective departments.

Treasurer's Report.

XI. The Treasurer shall make a quarterly Report to the Council, of the state of the Society's Funds.

Council's Report.

XII. The Council, at the Annual Meeting, shall present a Report of the state of the Society's Funds, the progress of the Library and Museum, and the general advancement of the objects of the Society; and the Report, if approved by the Meeting, shall be printed and sent to the members.

SECTION III.

ELECTION OF MEMBERS.

Proposal of Subscribing Members.

I. The proposal of a Subscribing Member shall be in the following form, signed by three members of the Society, and shall be hung up in the Library, for one week previous to the ballot :

of being desirous of
becoming a Member of the *Yorkshire Philosophical Society*,
we, whose names are undersigned, do recommend him as a
proper person to be a Member thereof.

(Date.)

(Signatures.)

II. Honorary Members shall be proposed by the Council, and no previous notice shall be required.

Proposal of
Hon. Members.

III. The ballot for a Candidate shall take place at a General Meeting, and if three-fourths of the Subscribing Members present vote in the affirmative, he shall be admitted into the Society.

Ballot for
Members.

SECTION IV.

PAYMENTS OF MEMBERS.

I. Each subscribing Member shall pay to the Treasurer Five Pounds on his admission, and an Annual Subscription of One Pound on every first day of January following.

Admission-
money &
Subscription.

II. A Member may compound for his future annual subscriptions by a payment of Ten Pounds; and, having so compounded, he shall be entitled to all the privileges of a Subscribing Member.

Composition.

SECTION V.

PROPERTY.

I. The Property of the Society is, and shall be, vested in the Subscribing Members.

Property in
whom vested.

II. The Council shall be authorized to exchange specimens belonging to the Society, with other institutions or individuals, in such manner as they may judge conducive to the interests of the Society and Science; such specimens excepted, as shall have been given to the Society under restrictions to the contrary.

Exchange of
Specimens.

Purchases &
Disbursements.

III. The Council shall be authorized to make purchases, and give orders on the Treasurer, upon the Society's account.

SECTION VI.

MUSEUM AND LIBRARY.

Access to
Museum
& Library.

I. Members, both Subscribing and Honorary, and Strangers accompanied by a Member, shall have access to the Museum and Library, subject to such restrictions and regulations as the Council shall appoint.

Circulation
of Books.

II. Such of the Society's Books, as in the judgment of the Council can be permitted to circulate, shall be sent out to Subscribing Members resident within the County, under such regulations and penalties as the Council shall appoint.*



* For the Regulations appointed by the Council, for the Museum and Library, see the Report for 1824, page 32.



S. 403.A. 1.

